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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/727,034	11/30/2000	Gregory J. Conley	15850-000001	3004
27572 7590 06/22/2010 HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303				
EXAMINER				
NGUYEN, LUONG TRUNG				
ART UNIT		PAPER NUMBER		
2622				
MAIL DATE		DELIVERY MODE		
06/22/2010		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/727,034

Applicant(s)

CONLEY, GREGORY J.

Examiner

LUONG T. NGUYEN

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/12/2010 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claim 40 filed on 04/12/2010 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

3. Claim 40 is objected to because of the following informalities:

Claim 40 (line 6), "said array so that each camera" should be changed to --said array of cameras so that said each camera--.

Claim 40 (line 6), "the scene" should be changed to --the common scene--.

Claim 40 (line 8), "each said adjacent or proximate camera" should be changed to --each adjacent or proximate camera--.

Claim 40 (line 9), "a controlled amount of light tunneling" should be changed to --the controllable amount of light tunneling --.

Claim 40 (line 10), "to accumulate to provide" should be changed to --to provide--.

Claim 40 (line 11), "wherein the tunnel" should be changed to --wherein the tunnel of moving light--.

Claim 40 (line 13), "said light tunnel images" should be changed to --said respective light tunnel images --.

Claim 40 (line 14), "the visual effect" should be changed to --the visual special--.

Claim 40 (line 15), "said scene" should be changed to --said common scene--.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ditchburn et al. (US 5,184,732) in view of DeAngelis et al. (US 5,657,077).

Regarding claim 40, Ditchburn et al. disclose a method for producing a visual special effect incorporating a controllable amount of light tunneling, comprising the steps of:

providing an array of cameras deployed along a curvilinear path (electronic viewers 5, figure 1, column 3, lines 37-40) with each camera focused on a common scene (a viewing zone, figure 1, column 3, lines 37-40) containing a moving subject or object.

controlling sequential actuation of a series of adjacent or proximate cameras along said array so that each camera begins to capture an image of the scene at a different point in time from each other (light curtain 3 triggers a strobe for signaling the electronic viewers 5 captures object, figure 1, column 3, lines 27-36);

controlling a time length of exposure of each said adjacent or proximate camera to allow a controlled amount of light tunneling (light beams from illuminators 4, figure 1, column 3, lines 25-36) caused by said moving subject or object to accumulate to provide respective light tunnel images (since light curtain 3 triggers a strobe for signaling the electronic viewers 5 captures object, exposure time for each viewer 5 is inherently controlled (i.e., controlling a time length of exposure for each camera), figure 1, column 3, lines 27-36);

capturing a tunnel of moving light on each camera (each viewer 5 captures moving object passes through light curtain 3, noted that the moving object, which passes through curtain 3, creates a tunnel of moving light, figure 1, column 3, lines 20-36).

Ditchburn et al. fails to specifically disclose wherein the tunnel can be rotated back and forth between first and second angles on a screen; and displaying a sequence of said light tunnel images in a motion picture medium to create the visual effect from a point of view of moving along said curvilinear path while viewing said scene.

However, DeAngelis et al. teaches a system for recording and displaying a time-sequential scene on a computer, in which the direction of any displayed sequence of digital image frames forming a scene is reversible by re-ordering the sequence of frames, which reads on the tunnel can be rotated back and forth between first and second angles on a screen (column 3, lines 56-63; column 4, lines 42-56; column 13, lines 30-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device in Ditchburn et al. by the teaching of DeAngelis et al. in order to provide improved access, control and storage of a scene comprising a sequence of discrete time images (column 2, lines 25-28).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LUONG T. NGUYEN whose telephone number is (571)272-7315. The examiner can normally be reached on 7:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID L. OMETZ can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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